

ERM-Southeast, Inc.

Suite 200  
7300 Carmel Executive Park  
Charlotte, NC 28226  
(704) 541-8345  
(704) 541-8416 (Fax)

RECEIVED  
N.C. Dept. of EHNR

NOV 17 1995

Winston-Salem  
Regional Office

September 28, 1995

Mr. Thomas Moore  
NCDEHNR  
Division of Environmental Management  
Ground Water Section  
585 Waightown Street  
Winston-Salem, NC 27107



**Re: Monitor Well Installation Permit Application  
Former Exxon Retail Location 4-3998  
Greensboro, North Carolina  
Incident #: 10001**

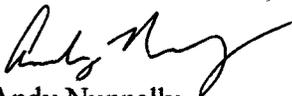
Dear Mr. Thomas Moore:

On behalf of Exxon Company, U.S.A., ERM-Southeast, Inc. is submitting one monitor well installation permit application for the above referenced site. The proposed monitor well location is at 4141 Spring Garden Street in Greensboro, NC. A site plan showing existing monitor well locations and the proposed monitor well location is attached. A well construction diagram is also included.

Please contact me if you have any questions.

Sincerely,

ERM-SOUTHEAST, INC.

  
Andy Nunnally  
Environmental Scientist

**Offices of  
ERM-Southeast Inc. in:**

Brentwood, TN (Nashville)  
Kennesaw, GA (Atlanta)  
Charlotte, NC  
Mobile, AL  
Memphis, TN

NORTH CAROLINA  
 ENVIRONMENTAL MANAGEMENT COMMISSION  
 DEPARTMENT OF ENVIRONMENT, HEALTH, & NATURAL RESOURCES  
**APPLICATION FOR PERMIT TO CONSTRUCT A MONITORING WELL SYSTEM**

Date: 11-15-, 1995 County Guilford

In accordance with the provisions of Article 7, Chapter 87, General Statutes of North Carolina and regulations pursuant thereto, application is hereby made for a permit to monitoring wells.

1. Name of Applicant: Exxon Company USA (Telephone: 704-529-4263)  
 Applicant's Mailing Address: P.O. Box 30451 Charlotte NC 28230-0451
2. Name of Property Owner (if different from applicant) VM-JDM-FIV Co.  
 Owner's Mailing Address: 2301 Stanenge Drive, Suite 101, Raleigh
3. Contact Person: Dan Moore (Telephone: 910-294-8011)
4. Location of Property: 4141 Spring Garden Street, Greensboro NC
5. Reason for Monitoring Well(s): environmental assessment  
 (ex: nondischarge permit requirements, suspected contamination, environmental assessment, etc.)
6. Type of facility or site for which the monitoring well(s) is needed: Underground storage tank  
 (ex: nondischarge facility, waste disposal site, landfill, underground storage tank, etc.)
7. Type of contamination being monitored (if applicable): Gasoline range petroleum hydrocarbons  
 (ex: nutrients, organics, heavy metals, etc.)
8. Are any existing recovery wells associated with the monitoring well(s)? No If yes, how many? \_\_\_\_\_  
 Recovery Well Construction Permit No. \_\_\_\_\_
9. Distance to a known waste or pollution source: 0 feet
10. Are any water supply wells located less than 500 feet from the proposed monitoring wells? No  
 If yes, give distance: \_\_\_\_\_ feet
11. Well Driller: Groundwater Protection
12. Registration #: 1105
13. Driller's Address: PO Box 7028 Charlotte NC 28241-7028

**PROPOSED MONITORING WELL CONSTRUCTION INFORMATION**

1. Total Number of Wells to be constructed: 1 ; (A) Number to be completed in bedrock? 0  
 (B) Number to be completed in unconsolidated material? 1

2. Estimated depth of well(s): 32 feet
3. Gravel or sand pack interval (if appropriate)  
 From 15 feet To 32 feet
4. Type of casing used: PVC  
 (ex: PVC, stainless steel, galvanized steel, etc.)

<b>FOR OFFICE USE ONLY</b>	
<input type="checkbox"/> PERMITTED ACTIVITY	
<input type="checkbox"/> U.S.T. LEAK DETECTION	
<input type="checkbox"/> GROUNDWATER QUALITY STANDARDS VIOLATIONS SUSPECTED FROM UNPERMITTED ACTIVITIES	
<input type="checkbox"/> NOTICE OF NON-COMPLIANCE AT UNPERMITTED FACILITIES	
PERMIT NO. _____	ISSUED _____ 19 _____

6. Thickness of casing: 5cm 40 inches
7. How will the well(s) be secured? 2x2 concrete pad w/bolt down cover and locking well cap
8. Estimated beginning construction date: 12/4/95
9. Estimated completion date: 12/5/95

**ADDITIONAL INFORMATION**

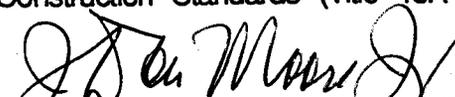
1. ATTACH A SITE MAP SHOWING THE LOCATIONS OF THE FOLLOWING:
- 1 - PROPOSED MONITORING WELL(S)
  - 2 - ALL EXISTING MONITORING AND RECOVERY WELLS OR TEST BORINGS WITH THE PROPERTY BOUNDARY
  - 3 - ALL WATER SUPPLY WELLS WITHIN 500 FEET OF THE WASTE SOURCES
  - 4 - AT LEAST TWO REFERENCE POINTS (NUMBERED ROADS, INTERSECTIONS, STREAMS, ETC.)
2. PROVIDE A WELL CONSTRUCTION DIAGRAM OF EACH WELL SHOWING DIAMETER, ESTIMATED DEPTH, SCREEN INTERVALS, SAND/GRAVEL PACKS, TYPE OF CASING MATERIAL, CASING WALL THICKNESS, WELL HEAD COMPLETION DETAILS, ETC.)
- 
- 

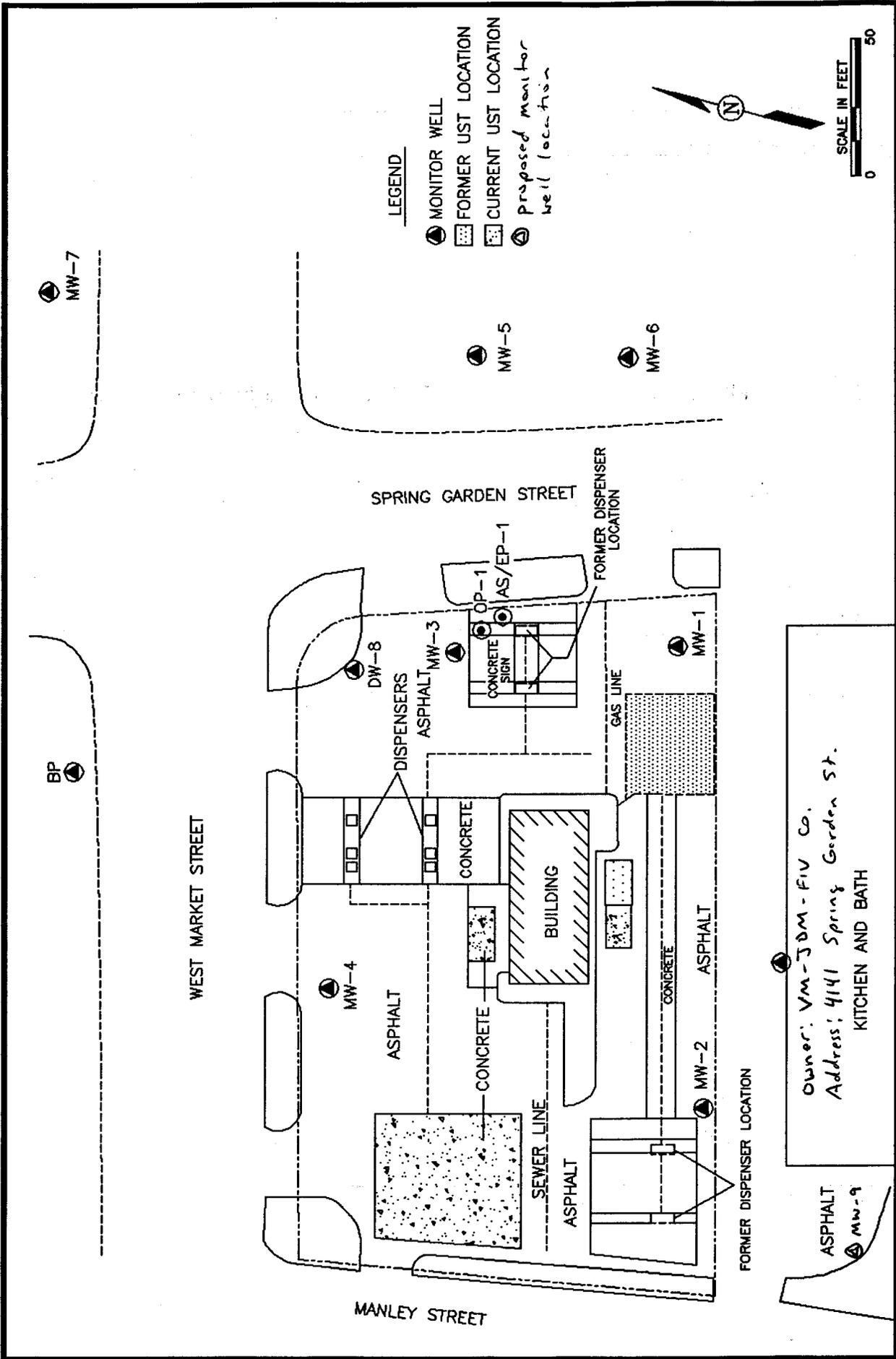
The Applicant hereby agrees the proposed well(s) will be constructed in accordance with approved specifications and conditions of the Well Construction Permit as regulated under the Well Construction Standards (Title 15A North Carolina Administrative Code, Subchapter 2C) and accepts full responsibility for compliance with these rules.

 - ERM-Southeast, Inc.  
Signature of Applicant or Agent

\_\_\_\_\_  
Title (if applicable)

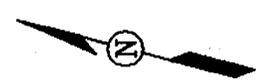
If the property is owned by someone other than the applicant, the property owner hereby consents to allow the applicant to construct monitoring wells as outlined in this application and that it shall be the responsibility of the applicant to ensure that these monitoring wells conform to the Well Construction Standards (Title 15A North Carolina Administrative Code, Subchapter 2C).

  
Signature of Property Owner (if different from applicant)  
Agent for VM-JDM-FIV Co.



**LEGEND**

- MONITOR WELL
- ▨ FORMER UST LOCATION
- ▤ CURRENT UST LOCATION
- ⊙ proposed monitor well location



FIGURE

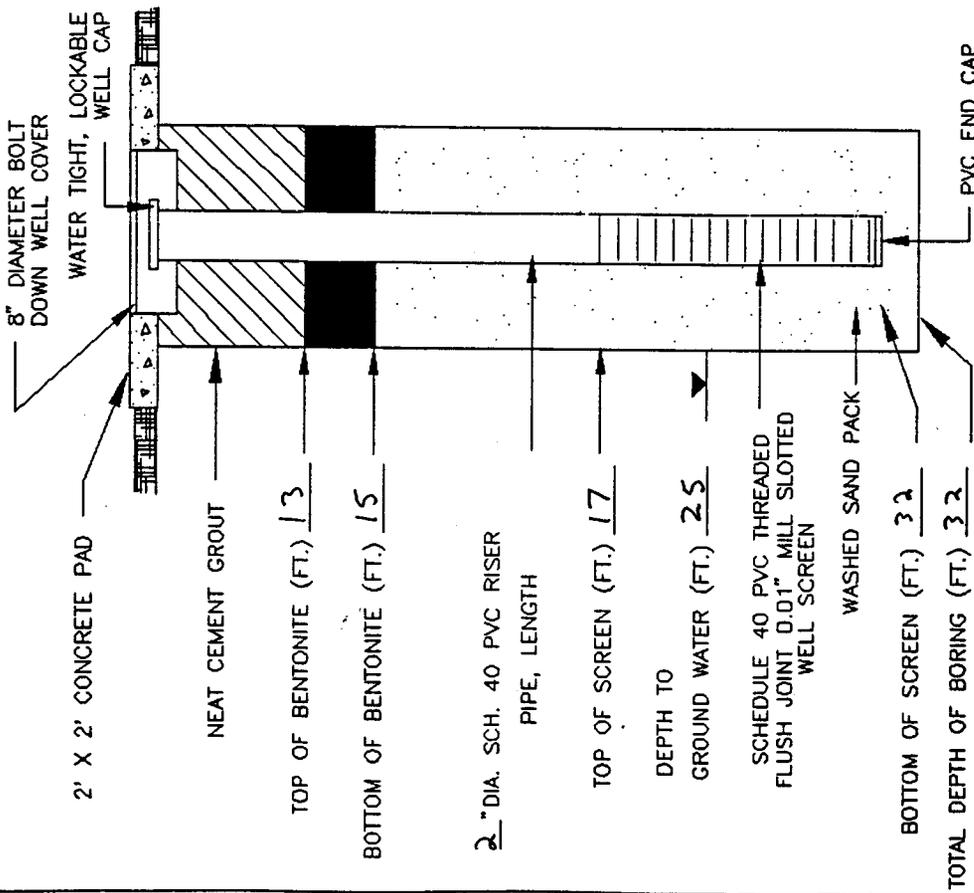
2

**SITE PLAN**  
**EXXON COMPANY, U.S.A.**  
 RETAIL LOCATION 4-3998  
 4701 W. MARKET STREET  
 GREENSBORO, NORTH CAROLINA

Owner: VM-JDM-FIV Co.  
 Address: 4141 Spring Garden St.  
 KITCHEN AND BATH

**ERM-Southeast, Inc.**  
 CHARLOTTE, NORTH CAROLINA





8" DIAMETER BOLT  
DOWN WELL COVER

WATER TIGHT, LOCKABLE  
WELL CAP

2' X 2' CONCRETE PAD

NEAT CEMENT GROUT

TOP OF BENTONITE (FT.) 13

BOTTOM OF BENTONITE (FT.) 15

2" DIA. SCH. 40 PVC RISER  
PIPE, LENGTH

TOP OF SCREEN (FT.) 17

DEPTH TO  
GROUND WATER (FT.) 25

SCHEDULE 40 PVC THREADED  
FLUSH JOINT 0.01" MILL SLOTTED  
WELL SCREEN

WASHED SAND PACK

BOTTOM OF SCREEN (FT.) 32

TOTAL DEPTH OF BORING (FT.) 33

PVC END CAP

BOREHOLE DIA. (IN.) 6.25

EXXON COMPANY, U.S.A.  
RETAIL LOCATION 4-3998

Greensboro, NORTH CAROLINA

MW-9

DRILLING LOG AND MONITOR WELL  
CONSTRUCTION DIAGRAM



ERM-SOUTHEAST, INC  
CHARLOTTE, NC

PROJECT #  
DATE:

TYPE: LOG.DWG